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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/743,902	12/24/2003	Ki-Jae Park	1793.1099	9195
21171 7559 687182908 STAAS & HALSEY LLP SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			EXAMINER	
			HALEY, JOSEPH R	
			ART UNIT	PAPER NUMBER
	,		2627	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Application No. Applicant(s) 10/743,902 PARK ET AL. Office Action Summary Examiner Art Unit JOSEPH HALEY 2627 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 22 April 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 5.10.14 and 15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 5, 10, 14 and 15 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/S5/08)
Paper No(s)/Mail Date \_\_\_\_\_\_.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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#### DETAILED ACTION

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5, 10, 14 and 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al. (US 6410904) in view of Kato et al. (US 6220764).

In regard to claim 5, Ito et al. teaches a drive chip integrated laser diode module comprising: a laser diode module main body to generate and emit laser light (fig. 3); a drive chip to drive the laser diode module main body (fig. 4 element 5); and a main board (element 3) having a plurality of lands to which leads of the drive chip are directly connected (elements 68a-d); wherein the drive chip and the main board are integrally coupled with respect to the laser diode module main body, the laser diode module main body comprises a laser diode inside the laser diode module main body and a plurality of laser diode leads protruding outwardly to apply electric power to the laser diode (fig. 4), a plurality of coupling holes being formed in the drive chip (fig. 4, see where elements 68a-c pass through drive chip 5), wherein the plurality of laser diode leads are respectively inserted into the coupling holes and a plurality of inner connectors are formed in each of the coupling holes, respectively, to which each of the laser diode leads are respectively electrically connected (see column 8 lines 25-29), in a state in which a semiconductor device is mounted on a lead frame the inner

connectors having a predetermined shape in which end portions of the laser diode leads are inserted (fig. 4) but does not teach the drive chip is packaged with a mold resin, and the drive chip further comprises a plurality of drive chip leads protruding outwardly from the mold resin.

Kato et al. teaches the drive chip is packaged with a mold resin, and the drive chip further comprises a plurality of drive chip leads protruding outwardly from the mold resin (fig. 1b and column 10 lines 20-24).

The two are analogous art because they both deal with the same field of invention of optical systems.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the drive chip apparatus of Ito et al. with the molded chip of Kato et al. The rationale is as follows: At the time of invention it would have been obvious to provide the drive chip apparatus of Ito et al. with the molded chip of Kato et al. because using the molding method of Kato et al. makes mass production easier.

In regard to claim 10, Ito et al. teaches wherein the inner connectors are provided without protruding outwardly from the coupling holes (see fig. 4 elements 68a-c. The connectors do not protrude from the housing).

In regard to claim 14, Ito et al. teaches a through hole in the main body through which the laser diode module main body passes (see where fig. 4 element 6 passes through the main body 3).

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In regard to claim 15, Ito et al. wherein the main board is directly coupled to a surface of the drive chip so that the structure is made compact (see fig. 4 elements 35 and 36 see also column 8 lines 37-41).

### Response to Arguments

Applicant's arguments with respect to claim 5 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSEPH HALEY whose telephone number is (571)272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph H. Feild/ Supervisory Patent Examiner, Art Unit 2627

jrh

/William Korzuch/ SPE, Art Unit 2627